

Claims

- 5 ~~1. Real-time test system comprising at least one reservoir with monoclonal anti-insulin or anti-C peptide capture antibodies solidified in said reservoir, which reservoir is capable to receive a sample; a wash solution; labelled monoclonal anti-insulin or anti-C peptide antibodies useful as a tracer, wherein the label allows photometrical detection; and at least one photomultiplier detector.~~
- 10 ~~2. Test system according to claim 1, wherein the labelled monoclonal anti-insulin or anti-C peptide is present in dried form in the said reservoir.~~
- ~~3. Test system according to claim 1, wherein the said labelled monoclonal anti-insulin or anti-C peptide antibodies are labelled by a chemiluminescent label.~~
- ~~4. The system of claim 1, wherein the reservoir is a microtiter well.~~
- 15 ~~5. A method for determining insulin levels in a sample, comprising adding the sample to a reservoir with monoclonal anti-insulin or anti-C peptide capture antibodies solidified in said reservoir, and labelled monoclonal anti-insulin or anti-C peptide antibodies useful as a tracer, followed by incubation giving labelled insulin complexes; washing; and detecting the labelled insulin complexes photometrically.~~
- 20 ~~6. The method of claim 5, wherein the sample is perfusion solution obtained from a pancreas removed from the body after stimulating said pancreas with an insulin-production influencing compound, preferably glucose.~~
- ~~7. The method of claim 5, wherein the sample is supernatant of *in vitro* cultured beta cells.~~
- ~~8. The method of claim 5, wherein the sample is a blood sample.~~
- 25 ~~9. A method for determining insulin levels, comprising sampling blood in the Vena splenica and/or Vena porta, comprising the steps of introducing a probe in one of said veins, sampling at one or more spots in the said vein, and analysing the samples using the method of claim 5.~~

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10. ~~System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 1.~~
11. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 2.
12. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 3
- 10 13. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 4.

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